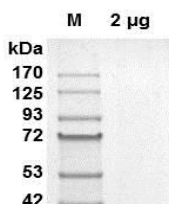


Human CellExp™ IL-10, Human Recombinant

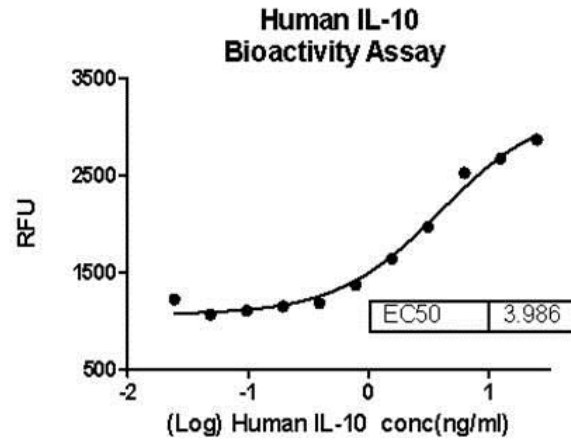
CATALOG NO:	6466-10 10 µg 6466-50 50 µg
ALTERNATE NAMES:	B-TCGF, CSIF, TGIF, IL-10, IL10A, MGC126450, MGC126451, Cytokine synthesis inhibitory factor.
MOL. WT.	19 kDa with a 6xHis tag at the C-terminus
SOURCE:	HEK 293 cells
PURITY:	> 95% SDS-PAGE
ENDOTOXIN:	< 1.0 EU per 1 µg of protein
FORM:	Lyophilized
FORMULATION:	Lyophilized from 0.22 µm filtered PBS (pH 7.4) with 5% trehalose
RECONSTITUTION:	Centrifuge the vial prior to opening. Reconstitute in sterile PBS (pH 7.4). Do not vortex.
SPECIFIC ACTIVITY:	The specific activity was determined by the dose-dependent stimulation of the proliferation of MC/9 cells (mouse mast cell line) in the presence of IL-4 using BioVision's Quick Cell Proliferation colorimetric Assay Kit Plus (Cat. No. K302). The ED ₅₀ is typically in a single digit ng/ml.
STORAGE CONDITIONS:	Aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
DESCRIPTION:	The cytokine IL-10 is a key anti-inflammatory mediator with an essential role in the development and proliferation of regulatory T cells, restricting myeloid and chronic inflammatory T cell responses. It has been shown that in solution IL-10 predominantly exists as a homodimer. However, the subunits within the dimer are non-covalently associated, although each subunit contains two intra-chain disulfide bonds. IL10 binds to its hetero-tetrameric receptor comprising IL10RA and IL10RB, which activates multiple pathways that contribute to the downstream anti-inflammatory effects. It also plays important roles in other processes such as sterile wound healing, autoimmunity, cancer, and homeostasis. Given the wide spectrum of the anti-inflammatory properties attributed to IL-10, both IL-10 enhancing and blockade strategies have been tried in a number of diseases and cancer therapy.
AMINO ACID SEQUENCE:	Ser 19 – Asn 178



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SDS-PAGE (4-20%) of Recombinant IL-10: 2 µg of the recombinant IL-10 is loaded under reducing condition and stained with Coomassie Blue.



Biological activity of IL-10: Measured in a cell proliferation assay using BioVision's Colorimetric Assay kit (Cat. No. K302). The ED₅₀ for this effect is typically in a single digit ng/mL

RELATED PRODUCTS:

- Quick Cell Proliferation colorimetric Assay Kit Plus (K302)
- IL-10 (Human) ELISA Kit (K4167)
- IL-10 Antibody (6638)
- Anti-IL10RA Antibody (A1770)
- IL-10, murine recombinant (4156)
- Anti-IL10RB Antibody (A1771)

FOR RESEARCH USE ONLY! Not to be used on humans.

